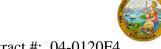
### **DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/Ala Rte: 80 PM: 13.2/13.9

File #: 69.28

# WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-022750 Address: 333 Burma Road **Date Inspected:** 23-Mar-2011

City: Oakland, CA 94607

**OSM Arrival Time:** 1900 **Project Name:** SAS Superstructure **OSM Departure Time:** 700 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

**CWI Name:** See below **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:** 

34-0006 **Bridge No: Component: OBG** Components

## **Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance Inspector (QA Inspector) George Goulet was present during the times noted above for observations relative to the work being performed.

Bay 10

This QA Inspector randomly observed the following work in progress in the Bay 10:

SMAW repair welding of weld joint BK010A1-001-043 located on PCMK OBG bike path. Welder was identified as 056364. QC was identified as ABF CWI Liu Cheng (QC1). Assisting QC1 at this location and appearing to be monitoring the welding operation and recording data was ZPMC QC Zhu Peng (QCA1), who was not a CWI. Weld variables recorded by QCA1 appeared to comply with WPS-345-SMAW-2G(2F)-repair as displayed on ZPMC Weld Repair Report B-WR20490 as presented to this QA Inspector and verbally identified by QCA1.

SMAW repair welding of 31TR1, 31TR2, 31TR3, 36TR1 located on PCMK OBG traveler rail. Welder was identified as 050038. QC was identified as QC1. Assisting QC1 at this location and appearing to be monitoring the welding operation and recording data was QCA1, who was not a CWI. Weld variables recorded by QCA1 appeared to comply with WPS-345-SMAW-1G(1F)-repair as displayed on ZPMC Weld Repair Report B-WR16931 as presented to this QA Inspector and verbally identified by QCA1. See below for photo of page 1 of B-WR16931 and photo of welder 050038 preheating the base metal prior to SMAW welding another repair. Note the several repairs previously preformed.

SAW welding of weld joint BK16-001-016 located on PCMK OBG bike path, cantilever beam. Welder was

# WELDING INSPECTION REPORT

(Continued Page 2 of 3)

identified as 209051. QC was identified as QC1. Assisting QC1 at this location and appearing to be monitoring the welding operation and recording data was QCA1, who was not a CWI. Weld variables recorded by QCA1 appeared to comply with WPS-B-P-2221-TC-U4a-S as verbally identified by QCA1.

SMAW welding of weld joint BK16A-001-005 located on PCMK OBG bike path cantilever beam. Welder was identified as 040551. QC was identified as QC1. Assisting QC1 at this location and appearing to be monitoring the welding operation and recording data was QCA1, who was not a CWI. Weld variables recorded by QCA1 appeared to comply with WPS-B-P-2212-TC-U4c as verbally identified by QCA1.

#### Bay 11

This QA Inspector randomly observed the following work in progress in the Bay 11:

SMAW welding of weld joint SA6019B-001-005 located on PCMK OBG. Welder was identified as 041271. QC was identified as ZPMC CWI Xu Le Feng (QC2). Assisting QC2 at this location and appearing to be monitoring the welding operation and recording data was ZPMC QC Shao Hai Lang (QCA2), who was not a CWI. Weld variables recorded by QCA2 appeared to comply with WPS-B-P-2312-TC-U4c and WPS-B-P-2313-TC-U4c as verbally identified by QCA2.

SMAW welding of weld joint SA6020B-001-005 located on PCMK OBG. Welder was identified as 202354. QC was identified as QC2. Assisting QC2 at this location and appearing to be monitoring the welding operation and recording data was QCA2, who was not a CWI. Weld variables recorded by QCA2 appeared to comply with WPS-B-P-2312-TC-U4c and WPS-B-P-2313-TC-U4c as verbally identified by QCA2.

#### **OBG Trial Assembly Area**

This QA Inspector randomly observed the following work in progress in the OBG Trial Assembly Area:

FCAW welding of weld joint SEG3007C-269 located on PCMK OBG 13AE. Welder was identified as 055564. QC was identified as ABF CWI Wu Ke Wen (QC3). Assisting QC3 at this location and appearing to be monitoring the welding operation and recording data was ZPMC QC Zhan Hai Feng (QCA3), who was not a CWI. Weld variables recorded by QCA3 appeared to comply with WPS-B-T-2233-ESAB as verbally identified by QCA3.

FCAW welding of weld joints SEG3007AH-098, 108, 118 located on PCMK OBG 13AE. Welder was identified as 050242. QC was identified as QC3. Assisting QC3 at this location and appearing to be monitoring the welding operation and recording data was QCA3, who was not a CWI. Weld variables recorded by QCA3 appeared to comply with WPS-B-T-2232-ESAB as verbally identified by QCA3.

SMAW welding of weld joints SEG3007S-147, 151, 155, 159 located on PCMK OBG 13AE. Welder was identified as 068924. QC was identified as QC3. Assisting QC3 at this location and appearing to be monitoring the welding operation and recording data was QCA3, who was not a CWI. Weld variables recorded by QCA3 appeared to comply with WPS-B-P-2213-TC-U4b-FCM-1 as verbally identified by QCA3.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

# WELDING INSPECTION REPORT

(Continued Page 3 of 3)





# **Summary of Conversations:**

As noted above.

#### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, 150-0042-2372, who represents the Office of Structural Materials for your project.

<b>Inspected By:</b>	Goulet,George	Quality Assurance Inspector
Reviewed By:	Riley,Ken	QA Reviewer